

MARCH 17, 1999

TEST REPORT #99103

NORMAL FORCE C-132 CONTACT

SAMTEC



APPROVED BY: MAX PEEL
PRESIDENT AND DIRECTOR OF ADVANCED RESEARCH
CONTECH RESEARCH, INC.



Contech Research

CERTIFICATION

This is to certify that the evaluation described herein was designed and executed by personnel of Contech Research, Inc. It was performed in concurrence of Samtec of New Albany, IL who was the test sponsor.

All equipment and measuring instruments used during testing were calibrated and traceable to NIST according to ISO 10012-1 and ANSI/NCSL Z540-1, as applicable.

All data, raw and summarized, analysis and conclusions presented herein are the property of the test sponsor. No copy of this report, in part or in full, shall be forwarded to any agency, customer, etc., by Contech Research without the written approval of the test sponsor.



Max Peel

President And Director Of Advanced Research
Contech Research, Inc.

MP:dl



EQUIPMENT LIST

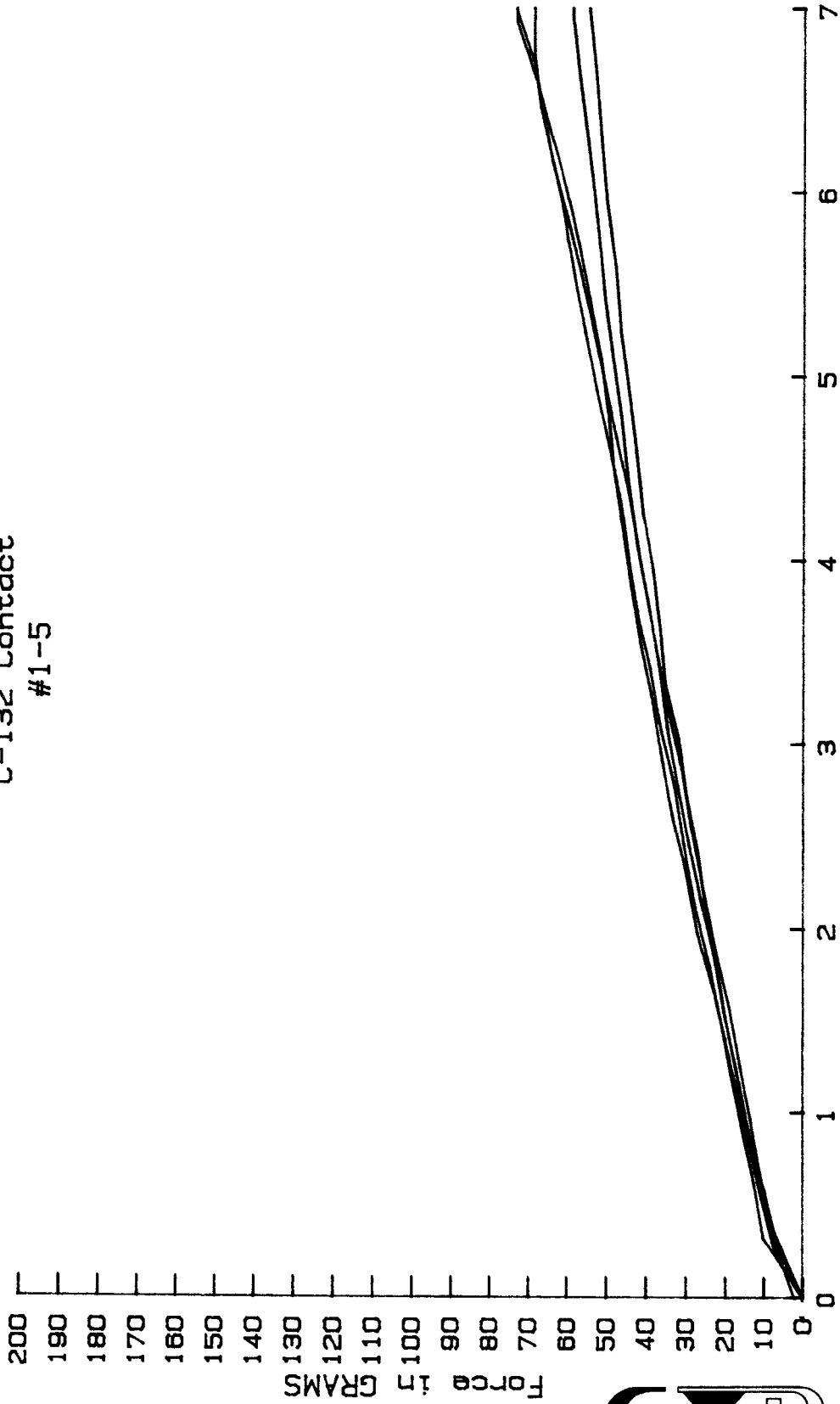
March 17, 1999

ID#	Next Cal	Last Cal	Equipment Name	Manufacturer	Model #	Serial #	Accuracy	Freq. Cal
53	9/15/99	3/15/99	Load Cell 10 Pound	Daytronic	152A-10	182	±1% Full Scale	6 mon.
92			NF Fixture	BK Tool & MFG	N/A	N/A	±.0005"	N/A
93			6 Volt Power Supply	Contech Research	N/A	N/A	N/A	N/A
99	5/13/99	5/13/98	Toolmakers Microscope	Mitutoyo Corp.	TM111	30046	See Specification	12 mon.
455	8/10/99	2/10/99	Digital Multi Meter Unit	Keithley Co.	199	392203	See Manual	6 mon.
487			Computer	Twilight Co.	386-40	N/A	N/A	N/A
631	9/15/99	3/15/99	LVDT Condt.Amp.	Daytronics Corp.	3230	S04888	See Owners Man.	6 mon.
683			Plotter	Hewlett Packard	7470A	2308A85161	N/A	N/A

TEST RESULTS



Samtec
C-132 Contact
#1-5



Tech: *Sub*
Date: 19-Feb-99

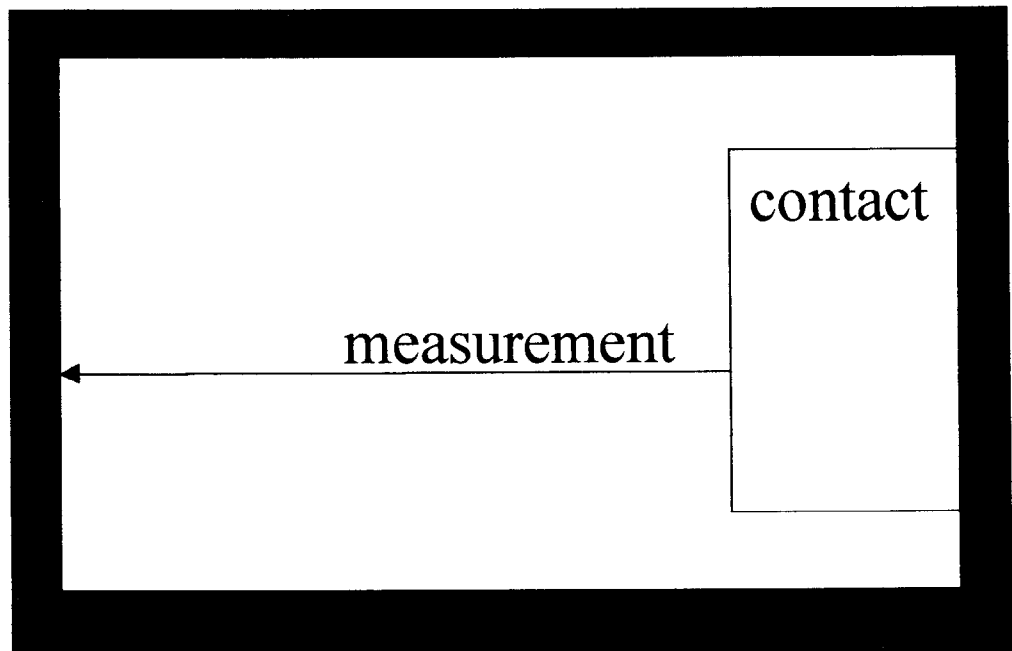
Project #: 9910301
SubGroup :
Deflection (0.000 IN.)
Contech Research, Inc.



Contech Research

99103 Samtec Gap Measurements (Inches) equipt.#99

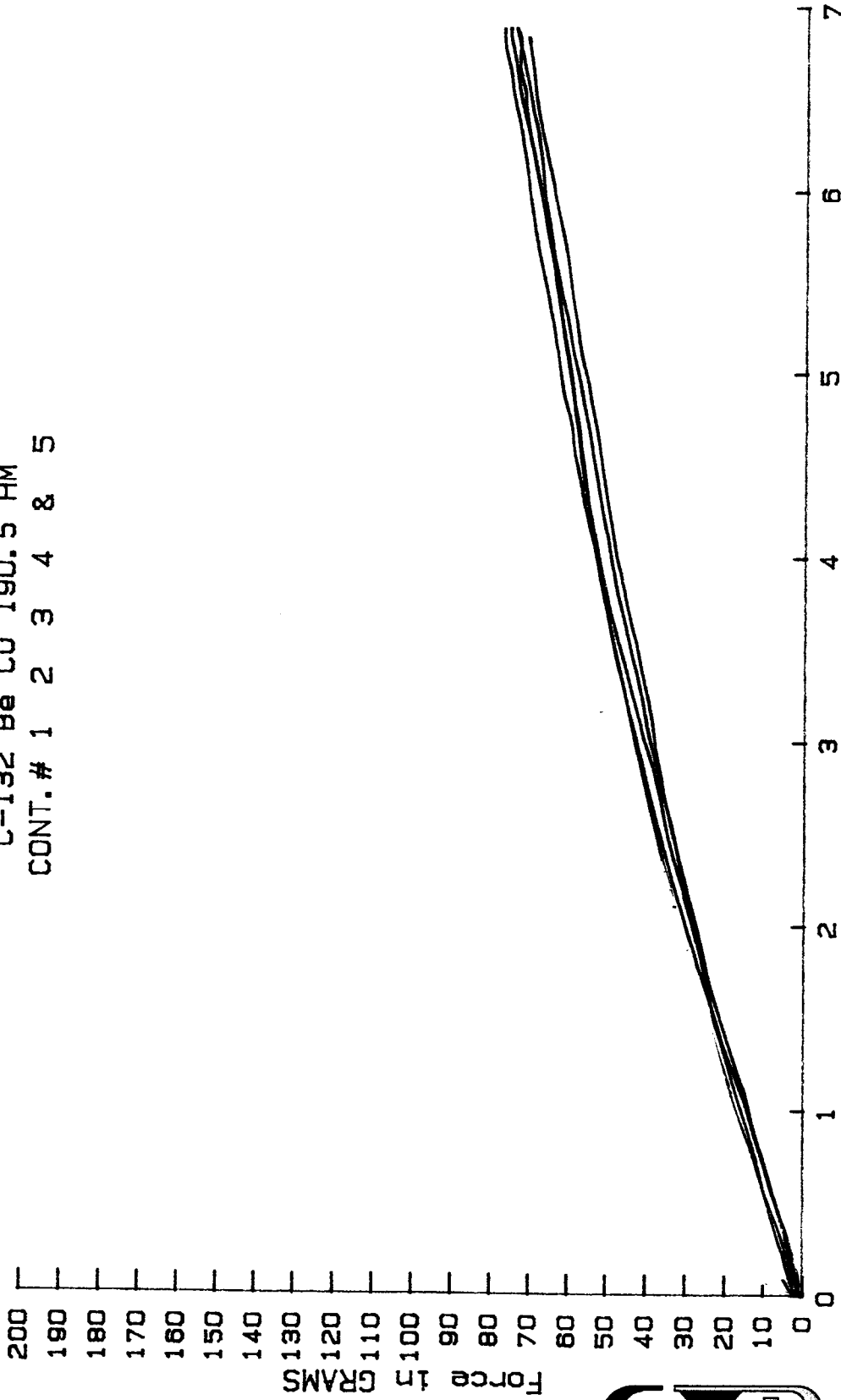
Contact #	Initial	10x	Delta
1	0.02320	0.02410	-0.00090
2	0.02400	0.02430	-0.00030
3	0.02350	0.02415	-0.00065
4	0.02360	0.02410	-0.00050
5	0.02340	0.02435	-0.00095
6	0.02380	0.02445	-0.00065
7	0.02450	0.02475	-0.00025
8	0.02310	0.02325	-0.00015
9	0.02340	0.02355	-0.00015
10	0.02385	0.02395	-0.00010
11	0.02385	0.02385	0.00000
12	0.02420	0.02470	-0.00050
13	0.02345	0.02420	-0.00075
14	0.02315	0.02375	-0.00060
15	0.02450	0.02450	0.00000
16	0.02410	0.02435	-0.00025
17	0.02450	0.02450	0.00000
18	0.02380	0.02435	-0.00055
19	0.02420	0.02420	0.00000
20	0.02315	0.02365	-0.00050
21	0.02410	0.02410	0.00000
22	0.02410	0.02410	0.00000
23	0.02375	0.02390	-0.00015
24	0.02435	0.02460	-0.00025
25	0.02335	0.02360	-0.00025
26	0.02445	0.02460	-0.00015
27	0.02345	0.02380	-0.00035



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SAMTEC

C-132 Be Cu 190.5 HM
CONT.# 1 2 3 4 & 5



Project #: 99103A01 Deflection (0.000 IN.) Tech: L L
SubGroup : N/A Contech Research, Inc. Date: 01-Mar-99



Contech Research

GAP MEASUREMENTS

Project : 99103A
 Customer : SAMTEC
 Product : C-132 Be Cu 190.5 HM
 Descriptor CONNECTORS (ID# 1 & 2)

Spec: N/A
 Subgroup : N/A
 File #: 1

Actual values
 units: inches

Temp 'C	20	20	20
R.H. %	30	30	30
Date :	3/2/99	3/2/99	3/2/99
Posi ID	INITIAL	10xDUR	DELTA
1-1	0.02285	0.02400	0.00115
1-2	0.02370	0.02395	0.00025
1-3	0.02395	0.02490	0.00095
1-4	0.02370	0.02420	0.00050
1-5	0.02430	0.02440	0.00010
2-1	0.02375	0.02395	0.00020
2-2	0.02340	0.02375	0.00035
2-3	0.02380	0.02380	0.00000
2-4	0.02420	0.02435	0.00015
2-5	0.02385	0.02425	0.00040
MIN	0.02285	0.02375	0.00000
MAX	0.02430	0.02490	0.00115
AVG	0.02375	0.02416	0.00041
STD DEV	0.00041	0.00034	0.00037
INITIALS	LL	LL	LL